(c) by when the production of aircrafts would commence at commercial level?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (SHRI MALLIKARJUN): (a) Yes, Sir.

(b) and (c) Certain foreign companies have expressed interest in co-production of civil aircraft with Hindustan Aeronautics Limited (HAL) and discussions are at a preliminary stage.

Extension of service to Associate NCC Officers

2160. SHRI SHANTI TYAGI: Will the PRIME MINISTER be pleased to state:

(a) what are the procedures adopted for the grant of extension of service to associate NCC Officers who are basically Professors in colleges;

(b) what are the guiding principles for NCC in the matter of relationship amongst the principal of a college, the Vice-Chancellor of a University and the Army authorities in NCC;

(c) whether representation of the associate NCC Officers pending for a long period of time; and

(d) if so, the reasons therefor?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (SHRI MALLIKARJUN): (a) Rule 22 of NCC Rules 1948, as amended from time to time has the provision of granting extension of service to associate NCC Officers upto 55 years, beyond the relinquishment age of 50 years, in the interest of NCC Organisation. Director General, NCC, who has been delegated the powers to grant such extensions, takes decisions in accordance with the recommendations of the Officers in the chain of Command and after a receipt of a confirmation from the head of the educational institution about their inability to provide another suitable member of the teaching staff for the assignment of ANO.

(b) The responsibilities of all the Officers in the chain of Command in NCC Organisation are clearly defined, therefore, no further guidelines have been laid down to regulate the relationship amongst the Principal, the Vice-Chancellor of a University and Army authorities in NCC.

(c) No, Sir.

(d) Does not arise.

Visit of a British Delegation

2161. SHRI SUSHILKUMAR SAMBHAJIRAO SHINDE:
SHRIMATI VEENA VERMA:
Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that a british delegation led by Mr. Nigel Paren, Director General Marketing of Defence Export Services Organisation visited New Delhi in May last to identify areas of joint Indo-British production and export of Defence items;

(b) if so, what was the outcome thereof; and

(c) what follow-up action has been taken in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (SHRI MALLIKARJUN): (a) to (c) In order to expand the scope of cooperation between India and UK, a Defence Industry Mission comprising officials of UK Ministry of Defence, led by Sir Alan Thomas, Head of Defence Export Services Organisation (DESO) and including representatives of British defence industry visited India in *February, 1993*. The Mission visited our production units in the areas of aerospace and electronics with a view to identifying possibilities of joint production, buy back and international marketing of products. Two joint agreements were concluded and ideas for many more evolved. These ideas are being pursued through further discussions between the companies concerned.

In May 1993 a British delegation led by Mr. Nigel Paren, Director General Marketing of DESO visited New Delhi with the purpose of interaction with our officials on UK experiences of procurement, pricing, defence industry privatisation, etc. It was recognised that conditions in the two countries are different, yet some of the UK experiences could be of interest to us and could be studied further.

DRDO projects

2162. SHRI SUSHILKUMAR SAMBHAJIRAO SHINDE:
SHRIMATI VEENA VERMA:
Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that a number of weapon projects undertaken by the Defence Research and Development Organisation for developing import substitutes had been given

up or proved futile resulting into of infructuous expenditure; and

(b) if so, the number and details of such projects given up or proved futile during the past five years and the infructuous expenditure involved in regard thereto ?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (SHRI MALLIKARJUN) : (a) As any research & development activity has certain inherent risks particularly in a dynamic environment a few weapon projects undertaken by Defence Research & Development Organisation for developing import substitutes have been short closed for various reasons viz. changes in threat perception and warfare scenario, long development time, high production cost of indigenously developed items etc. However the expenditure incurred on such projects is not infructuous. The expertise gained and infrastructural facilities set up under such projects are directly useful to future projects undertaken in these areas.

(b) During past five years, six weapon projects for developing import substitutes have been short closed or not pursued for production. These projects and expenditure incurred till closure, which was not infructuous, are as under :—

(i) Development of a rocket : Rs. 28·92 lakhs.

(ii) Development of a bomb : Rs. 3·02 crores.

(iii) Development of an illuminating ammunition : Rs. 18·31 lakhs.

(iv) Development of a Gun : Rs. 66·01 lakhs.

(v) Development of practice-head for a weapon : Rs. 79·70 lakhs.

(vi) Development work for conversion of guidance system of a weapon : Rs. 52·32 lakhs.

Production of equipment for satellite based navigation system

2163. SHRI SURESH KALMADI : Will the PRIME MINISTER be pleased to state :

(a) whether it is a fact that Government propose to develop and produce all equipments needed for the satellite based navigation system for the aviation sector, both civilian and military purposes;

(b) if so, what is the total cost involved; and

(c) when the proposal is likely to be implemented ?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE & TECHNOLOGY, DEPARTMENT OF ELECTRONICS, DEPARTMENT OF OCEAN DEVELOPMENT AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS (SHRI P. R. KUMARMANGALAM) : (a) As per the agreement of International Civil Aviation Organisation, for switchover from conventional Communication, Navigation and Surveillance (CNS) System to Satellite based system from 2000, six key technologies have been planned to develop for phased implementation.

(b) The development cost is estimated to be Rs. 23 crores.

(c) The development programme was initiated in October, 1992. It will take 3 to 5 years to complete in steps for different items of the system. Thereafter, it will be operationalised in phases as per implementation plan of the International Civil Aviation Organisation.

Status of Colour Television Industry

2164. SHRI S. AUSTIN : Will the PRIME MINISTER be pleased to state :

(a) the status of Colour Television Industry in the country;

(b) the production by each colour television manufacturer alongwith brand name and the quantity produced by each of them during 1992;

(c) the multinational companies approved for manufacture of colour television and the annual production by each of them; and

(d) the steps taken by Government to boost indigenous television industry so that it can compete with multinational television companies ?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE & TECHNOLOGY, DEPARTMENT OF ELECTRONICS, DEPARTMENT OF OCEAN DEVELOPMENT AND MINISTER OF STATE IN THE MINISTRY OF PARLIAMENTARY AFFAIRS (SHRI P. R. KUMARMANGALAM) : (a) The production of Colour Television in the country during last 3 years was as follows :

Year	Production
1990	12·0 lakhs no.